Speculum perſpicuum Uranicum:

OR A 22

GLASSE

Wherein you may behold the Revolution of the year of our Lord Chriſt, M. DC. LV.

Being the third after Biſſextile or Leap year.

SHEWING

All the notable Aſpects of the Planets with the Moon, and among themſelves.

With the true place of the Sun and Moon, in Signs, Degrees, and Min. for every day in the year.

Judgements Aſtrological, ſhewing the temper and ſeaſons of the year, with inclination of the aire.

Whereunto is added the Anſwer of ſome Aſtronomicall Propoſals, with Tables very fit and excellent for ſuch a Book.

Calculated for the Meridian of *London*, whoſe Pole-artick is elevated above the Horizon 51. degrees 32. min. north latitude and longitude 24. deg. 40. min.

Ipſe vero Deus, &c. pater noſter, &c. Dominus noſter Jeſu Chriſtus dirigat viam noſtram ad vos.

London, Printed by *E. Cotes*, for the Company of STATIONERS.

Vulgar Notes according to the *Julian* Account used in *England* for this year, 1655.

The Golden Number	3
The Dominical Letter	B
The Circle of the Sun	12
The Roman Indiction	8
The Number of Direction	25
The Epact	3

Shrove sunday	February 15
Septuagesima	February 11
Sexagesima	February 18
Quinquagesima	February 25
Quadragesima	March 4
Easter day	April 15
Rogation sunday	May 20
Ascension day	May 24
Whit sunday	June 3
Trinity sunday	June 10
Advent sunday	December 3

Hillary Term beginneth the 23 day of *January*, and endeth the 13. of *February*.

Easter Term beginneth *May* the 2 day, and endeth *May* 28.

Trinity Term beginneth June the 15 day, and endeth *July* the 4.

Michaelmas Term beginneth the 24 of *October*, and endeth the 28 of *November*.

The names and Characters of the 12. Signes of the Zodiack, with a description of what part or member of the body each Sign governeth.

♈	*Aries*, Head and face.	♎	*Libra*, Reins and loynes.
♉	*Taurus*, Neck and throat.	♏	*Scorpio*, secret members.
♊	*Gemini*, Arms & mould.	♐	*Sagittarius*, Thighes.
♋	*Cancer*, Breft & ſtomack.	♑	*Capricornus*, Knees.
♌	*Leo*, Heart and back.	♒	*Aquarius*, Legs.
♍	*Virgo*, Bowels and belly.	♓	*Piſces*, Feet.

The Names and Characters of the 7. Planets With the Head and Tail of the *Dragon*.

♄	*Saturne.*		
♃	*Jupiter.*		
♂	*Mars.*	☊	*Dragons Head.*
☉	*Sol.*		
♀	*Venus.*	☋	*Dragons Tail.*
☿	*Mercury.*		
☾	*Luna.*		

A Table of the Aſpects.

☌	*Conjunction*	0	0	*Novilunium.*
SS	*Semiſextile*	1	0	
⚹	*Sextile*	2	0	*Corniculata.*
Q	*Quintile*	2	12	
□	*Quartile*	3	0	*Semiplena.*
Td	*Tridecile*	3	18	
△	*Trine*	4	0	*Gibboſa.*
Bq	*Biquintile*	4	24	
☍	*Oppoſition*	6	0	*Plenilunium.*

A very neceſſary Table declaring what part of the body is pained and diſeaſed by ſignification of the Planets in every ſign through all the parts of a mans body.

	♄	♅	♂	☉	♀	☿	☾
♈	Breſt	Ne.thr.	Belly	Thighs	Reins	Secrets	Knees
	Arme	Heart Belly	Head		Feet	Legs	Head
♉	Heart	Should.	Reins	Knees	Secrets	Thighs	Legs
	Breſt Belly	Armes Bell. N.	Throat		Head	Feet	Throat
♊	Belly	Breſt	Secret	Legs	Thighs	Knees	Feet
	Heart	Reins Secret	Armes Breſt	Ankle	Throat	Head	Should. Ar.thig.
♋	Reins	Heart	Thighs	Feet	Knees	Legs	Head
	Belly	Secret			Should.	Throat	Breſt
	Secrets	Thighs	Breſt		Armes	Eyes	Stomac.
♌	Secrets	Belly	Knees	Head	Legs	Feet, ar.	Throat
	Reins	Thighs Knees	Heart Belly		Breſt Heart	Should. Throat	Stomac. Heart
♍	Thighes	Reins	Legs	Throat	Feet	Breſt	Armes
	Secrets Feet	Knees	Belly		Stomac. Hear.be	Head Heart	Should. Bowels
♎	Knees	Sec. legs	Feet	Should.	Head	Throat	Breſt, re
	Thighs	Head Eyes	Reins Secret	Armes	Small guts.	Heart Sto.bel.	Heart Bowels
♏	Knees	Thighs	Head Sec. Ar.	Breſt &	Throat Reins	Should. Armes	Stomac. Heart
	Legs	Feet	Thighs	Heart	Secrets	Bow. ba	Sec. bel.
♐	Legs	Knees	Throat	Heart	Should.	Breſt, re.	Bowels
		Head	Thighs		Armes	Heart	Thighs
	Feet	Thighs	Hands	Belly	Sec. thi.	Secret	Back
♑	Head	L. Neck	Armes	Belly	Breſt	Stomac	Reins
		Eyes	Shoul l.		Thighs	Heart	Knees
	Feet	Knees	Kn. legs	Back	Heart	Secret	Thighes
♒	Neck	Feet, An	breſt	Reins	Heart	Bowels	Secret
		Should.	Legs			Thighs	Legs
	Head	Breſt	Heart	Secret	Knees	Hea t	Ankles
♓	Armes	Head	Heart	Secret	Bel. leg.	Reins K.	Thighes
	Should.	Breſt	Fee. bel		Neck	Secret	
	Neck	Heart	Ankle	Thighs	Back	Thighs	Feet

January hath XXXI. dayes.

First quarter 5. day at 1. a clock after noon.
Full Moon 12. day 37 min. past four in the morning.
Last quarter 19. day 51. past 7. in the morning.
New Moon 27. day 36. min. past noon.

1	a	New p. ☌	♓	3	12	♍	21	23
2	b	✶ ☉ ☾		15	43		22	24
3	c	□ ☿ ☾		28	29		23	25
4	d	△ ♄ ♂	♈	11	32		24	27
5	e	Simeon		24	54		25	27
6	f	Twelf ☌	♉	7	35		26	28
7	g	♄ ♄ ♀		22	45		27	30
8	a	✶ ♂ ☿	♊	7	2		28	30
9	b	☾ perigr.		21	44		29	31
10	c	✶ ♄ ☾	♋	6	58	♒	0	33
11	d	☿ in *Elon.m.*		21	58		1	35
12	e	☾ ☊	♌	6	53		2	35
13	f	□ ♂ ☾		21	36		3	36
14	g	☾ ♄ ☿	♍	5	58		4	37
15	a	△ ☿ ☾		19	54		5	39
16	b	Bq ♄ ♀	♎	3	28		6	40
17	c	*anton.*		16	33		7	41
18	d	□ ☿ ☾		29	16		8	42
19	e		♏	11	39		9	43
20	f	☌ ♂ ☾		23	48		10	44
21	g		♐	5	43		11	45
22	a			17	34		12	46
23	b	Term b.		29	22		13	46
24	c		♑	11	14		14	47
25	d	✶ ♄ ♀		23	11		15	49
26	e	☾ ☊	♒	5	15		16	50
27	f			17	33		17	51
28	g	□ ♂ ☾	♓	0	0		18	53
29	a			12	39		19	54
30	b	Bq ♄ ♄		25	32		20	54
31	c		♈	8	36		21	55

Job. 28. 31. *Canst thou binde the sweet influence of Pleiades, or loose the bands of Orion?*

15, 16, 17, 18. da. showres tending to snow.

7, 8, 9. Let not bloud in the arme nor armes.

20. Good for Navigators to hoist sayle.

21. Praise the Lord for his mercies: the 22. at noon the moon is with the obscure starre called right elbow of the archer.

26. ☾ with the head of the Vultur at 7. in morn.

29. High-water at *London* Br. half an hour past 4. the same day at *Graves-end* at 3. a clock, at *Portsmouth* 36 min. past one; at *Plimmouth* is high water at 7. 36. min.

February hath XXVIII. dayes.

First quarter 3 day at 36. min. past 10 at night.
Full Moon 10. day 4. min. past 4. after noon.
Last quarter 18. day 22. min. past 3. before noon.
New Moon 26. day 42. min. past 4. in morn.

1	D		♈	21	52	♒	22. 53	Expect from the 1 to the 7
2	E	Purif. ♍	♉	5	24		23 54	day a wet season with mo-
3	F	☌ ☉ ☿		19	17		24 55	deration and temperate.
4	G		♊	3	2		25 56	6, 7, 8. good to set out for
5	a	SS ♈ ☉		17	13		26 56	voyage to sea, bad for a
6	b		♋	1	3		27 57	journey by land, fair wea
7	c			16	18		28 57	ther.
8	d	△ ♂ ☾	♌	0	24		29 57	9 day, lets and hinderan-
9	e	☾ ♍		15	18	♓	0 58	ces in many mens actions.
10	f	☌ ♄ ☾		29	24		1 58	
11	G		♍	14	0		2 59	12 day, high water at *Lon-*
12	a	☍ ♄ ☿		27	52		4 0	*don* Bridge 48 min. past 3.
13	b	♆ prin end	♎	11	28		5 1	a clock, same day at *Graves-*
14	c	Valentine		24	36		6 2	*end* 18 min. past 2 a clock,
15	d	△ ☿ ☾	♏	7	28		7 1	and *Hull* at 48. min. past 6.
16	e	SS ♈ ♃		19	50		8 0	*Dover* at 11 a clock.
17	f		♐	2	2		9 0	14 day ☉ riseth at 55 min.
18	G	☌ ♂ ☾		13	58		10 0	past 6.
19	a	☍ ♄ ♃		25	45		11 0	15 mist inclining to rain.
20	b	☽ apog.	♑	7	30		12 0	The 17 day ☾ with star
21	c	✶ ♈ ☾		19	24		13 0	*Antares* and *Ophiuchus* at
22	d		♒	1	20		14 1	2 a clock. Snow like
23	e	☽ ♉		13	30		15 1	the 18. Good to besiege a
24	f	□ ♂ ☿		26	0		16 1	place, or sow seeds.
25	G	Shrove su.	♓	8	39		17 1	19 Fair weather.
26	a	☌ ☿ ☽		21	38		18 0	A good time to take Phy-
27	b	☉ ☍ Purif.	♈	4	55		19 1	sick.
28	c	Td ♄ ♂		18	21		20 0	23 day ☉ ariseth 38 min.
								past 6.
								24 Make a great *Apertio*
								Terræ use.
								26 Rain, good to goe a
								voyage in regard of speed.
W.D.	W.D.		☽ Long			☽ lon.		

March hath XXXI. daies.

First quarter 5. day 16. min. past 6. in morn.
Full Moon 12. day 8. min. past 4. in morn.
Last quarter 19 day 29 min. past 11. at night.
New Moon 27. day 36. min. past 5. at night.

1	d	□ ♂ ☿	♉	2	10	♓	2.	19	Hail or snow.
2	e	△ ♄ ☾		16	0		21	59	3 day ☾ with Pleiades at 12 clock in morn.
3	f	✶ ♃ ☾		29	58		22	59	
4	g	☌ ♂ ☾	♊	13	58		23	58	4 day the moon is with the ✶ called the bright foot of Orion 30 min. past 2 after noon.
5	a	Vc ♄ ☿		28	6		24	58	
6	b	Fridelin	♋	12	9		25	58	
7	c			26	14		26	57	
8	d	□ ♂ ☉	♌	10	23		27	57	7. day ☉ riseth 9 m. past 6.
9	e	Bq ♄ ☿		24	29		28	56	8 Expect blustring windes.
10	f		♍	8	32		29	55	Convenient to make marriage, but ill to navigate.
11	g	☍ ♄ ☾		22	24		♈	0	55 Temperate gales.
12	a	Gregorie	♎	6	3		1	54	11. day ☉ riseth at 6 a clock. it is good to take Physick contrary to journey.
13	b	✶ ♂ ☾		19	27		2	53	
14	c	✶ ♄ ☾	♏	2	34		3	53	
15	d			15	20		4	52	
16	e	Syriacus		27	46		5	51	16 ☉ riseth 8 min. before 6.
17	f	△ ♀ ☾	♐	9	54		6	50	High water at *London Bridge* the 17 day at 7 a clock, at *Gravesend* half a hour past 5.
18	g			21	51		7	49	
19	a	Ioseph.	♑	3	40		8	48	
20	b	Bq ☉ ♄		15	25		9	48	Same day at *Lisbon* 15 min. past 6 a clock.
21	c	✶ ♃ ☾		27	20		10	47	
22	d	☽ ☊	♒	9	14		11	46	
23	e	Pin elon. m		21	25		12	45	
24	f	☌ ♄ ☾	♓	3	55		13	43	24 Cloudy.
25	g	Annu [illegible].		16	47		14	42	Beware of seeming friends.
26	a	☌ ♃ ☾	♈	0	3		15	41	Serenity.
27	b	☌ ☉ ☾		13	40		16	40	26,27,28,29. daies good to take Physick and good for to begin a journey.
28	c	☌ ♀ ☾		27	35		17	39	
29	d	☐ ♃ ♂	♉	11	47		18	38	
30	e	Guidon		26	5		19	36	30 day ☉ riseth 26 min. past 5.
31	f	☇ ☾ ☾	♊	10	28		20	35	

Aprill hath XXX. daies.

First quarter 3. day 48. min. paſt noon.
Full Moon 10. day 46 min. paſt 4. after noon.
Laſt quarter 18. day 23. min. paſt 6. after noon.
New Moon 26. day half an hour paſt ſeven in the morn.

1	☉	Judica	♊ 24 46	♈ 21 32	Cloudy weather.	
2	a	☌ ☍ ☾	♋ 9 0	22 33	Inclining to winde.	
3	b	□ ☿ ☾	23 5	23 31		
4	c	Ambroſe	♌ 6 59	24 29		
5	d	SS ☿ ♀	20 48	25 28	4, 5. Good to matrimony, and a good ſeaſon to begin to build, not ill to take phyſick.	
6	e	△ ♀ ☾	♍ 4 31	26 26		
7	f	△ ☿ ☾	18 2	27 25		
8	g	Palm ſu.	♎ 1 30	28 23	8 day the moon is with the ſtar called *Vindemiatrix* at 7 a clock at night.	
9	a	□ ♂ ☾	15 3	29 21		
10	b	△ ♄ ♄	28 0	♉ 0 20	9 day with left ſhoulder of Bootes or *Arctophylax* at 10 before noon.	
11	c	☌ ☉ ☿	♏ 10 48	1 18		
12	d	Julius	23 25	2 16	12 She is with the right ſhoulder of *Hercules* at 30 min. paſt 5. after noon.	
13	e	△ ☉ ♄	♐ 5 48	3 15		
14	f		17 54	4 13		
15	g	Eaſter d.	29 50	5 12	Moderate weather.	
16	a	☌ ♂ ☾	♑ 11 40	6 11	*Relieve the poor and needy, and God will help you, ſo that which you aske of him faithfully for.*	
17	d		23 24	7 8		
18	c	☾ ☊	♒ 5 9	8 6		
19	d	SS ☿ ♄	17 10	9 4	19 day ☉ riſeth 44. min. paſt 4 a clock.	
20	e	☌ ♄ ☾	29 19	10 2		
21	f	⚹ ☿ ☾	♓ 11 53	11 0	Wholeſome gales.	
22	g	quaſim	24 50	11 58	22 day it is high water at *London Bridge* at 36 min. paſt 12 a clock, ſame day at *Graveſend* at 11, and *Southampton* at 36 min. paſt 2. and *Briſtoll* at 21 min. paſt 4.	
23	a	George	♈ 8 6	12 55		
24	b	☌ ♄ ☾	21 54	13 53		
25	c	Id ☉ ☽	♉ 6 6	14 51		
26	d	SS ☿ ☾	20 38	15 50		
27	e	☿ ☿ ☿	♊ 5 23	16 47	7, 28. Let not bloud in your Arme.	
28	f	⚹ ☿ ☾	20 13	17 45		
29	g	☾ Perig.	♋ 4 55	18 42	*Serve God with purity and ſincerity of heart.*	
30	a	☌ ☉ ☿	19 28	19 41	30 day ☉ riſeth 23 min. paſt 4 a clock.	

May hath XXXI. daies.

First quarter 2. day 27. min. past 7. after noon.
Full Moon 10. day 21. min. past 6. before noon.
Last quarter 18. day 38. min. past 10. before noon.
New Moon 27. day 28. min. past 2. after noon.

1	b	Phil. & I.	♌	3	38	♉	20.38	At noon the 1 day the Moon is with the ſtar cald *South Aſelus*, Good to ſow ſeeds, and for marriage, ill to navigate: an aire with ſerenity and ſalubrious.
2	c	Ember beg.		17	36		21 36	
3	d	☽ ♄ ☾	♍	1	26		22 35	
4	e	△ ♂ ☾		14	53		23 32	
5	f	✶ ♆ ♀		28	15		24 29	
6	g	Jubilate	♎	11	16		25 27	*6, 7.* day good ſeaſon to ſow ſeeds and to take phyſick, contrary to wed. and journey.
7	a	△ ☉ ♂		24	12		26 24	
8	b	Bq ♂ ♀	♏	6	59		27 21	
9		△ ♄ ☿		19	33		28 19	Remiſſion of heat.
10	c	☿ elong. m	♐	1	58		29 16	Seaſon of rath diſputes among the female as concerning oppoſing one the other.
11	d	♂ ♀ ☾		14	8	♊	0 14	
12	e	△ ♄ ☾		26	11		1 12	14 day heat abated.
13	f	☾ apog.	♑	8	3		2 9	15 day ☉ riſeth at 4 min. after 4.
14	g	□ ☉ ♄		19	52		3 7	16 day ☽ is with the ſtarre called the *Dolphins* head at 10 in morn. Temperate weather.
15	a	☾ ♌	♒	1	39		4 4	
16	b	✶ ♆ ☾		13	26		5 1	
17	c	♀ ♆ ♀		25	23		5 59	
18	d	✶ ♄ ♀	♓	7	33		6 56	18 day good to take phyſick, bad for all other, except an old man ſeek to wed a maid. Rain.
19	e	Td ♄ ☿		20	0		7 53	
20	f	□ ♀ ♦	♈	2	52		8 51	
21	g	Td ♂ ☿		16	12		9 48	21 day it is high water at *London* Bridge 24 min. paſt 9, and at *Graveſend* 54 min. paſt 7, and at *Dover* 54 paſt 4 a clock.
22	b			29	58		10 45	
23	c	SS ♆ ☿	♉	14	13		11 42	
24	d	△ ♂ ☾		28	57		12 40	
25	e	Urbanus	♊	13	52		13 37	25 day ☾ is with the ſtarre cald *Aldebaran* or South eye of the Bull.
26	f	✶ ♄ ☾		29	1		14 34	
27	g	☾ perig.	♋	14	5		15 3	At 2 a clock in morn 27 da. Moon with the ſtar of the left ear of the greater dog *Sirius*, a turbulent air.
28	a	Pentec. end		28	56		16 29	
29	b	△ ♂ ☿	♌	13	32		17 26	
30	c	Wigam		27	47		18 23	
31	d	✶ ☿ ☾	♍	11	31		19 20	31 ☉ riſeth 49 min. paſt 3 a clock.

June hath XXX. daies.

Full Moon 8. day at 9. at night.
Last quarter 16. day at noon.
New Moon 23. day at noon.
First quarter 29. day at noon.

1	F	△ ♂ ☾	♍ 25 11	♌ 20 16		The 1 day the ☉ oblique ascension is 46 deg. 56 min. Remission of heat, wholesome windes, with fertility of fruit and cattle. Convenient time to take physick. Longest day.
2	G	SS ☉ ☿	♎ 8 14	21 14		
3	A	Whit-sun	21 12	22 12		
4	a	✱ ☉ ♆	♏ 3 12	23 9		
5	b	△ ☿ ☾	16 21	24 6		
6	c	□ ♄ ☾	♐ 0 36	25 3		
7	d	☍ ♃ ☾	♑ 10 48	26 0		
8	e	☌ ☉ ♂	22 49	26 57		
9	f	☾ ☍ apog.	♒ 4 44	27 54		
10	g	Trinity su.	16 37	28 51		
11	a	☾ ♋	28 25	29 48		
12	b	♂ ☉ ♃	♓ 10 16	♋ 0 45		12 day ☉ and ☿ being in conjunction in the sign of ♋ signifieth rain
13	c		22 8	1 43		
14	d	✱ ♄ ☿	♈ 4 7	2 40		14 day ☾ with the head of the winged horse *Pegasus* at 4.
15	e	Vitus beg	16 18	3 38		
16	f	△ ☿ ☾	28 46	4 34		
17	g	✱ ☉ ♄	♉ 11 35	5 31		
18	a	□ ☿ ☾	24 49	6 28		18 day ☉ riseth at 48 min. past 3.
19	b	Gervasius	♊ 8 30	7 25		19 day ☾ with the bright foot of *Andromeda* at 10 a clock in morn.
20	c	△ ♂ ☾	22 39	8 22		
21	d	Td ♆ ☿	♋ 7 16	9 19		
22	e		22 12	10 16		Moderate weather.
23	f	☾ perig.	♌ 7 12	11 13		23 day high water at *London* Bridge at 3 a clock, and *Gravesend* at half an hour past 1 a clock: the same day at *Dublin* 15 min. past 8 a clock.
24	g	□ ♆ ☿	22 36	12 10		
25	a	☌ ☿ ☾	♍ 7 35	13 7		
26	b	△ ♆ ☾	22 30	14 4		
27	c	☍ ♂ ☿	♎ 6 59	15 1		
28	d	△ ♂ ☾	21 —	15 58		Thunder with blustring wi
29	e	✱ ☿ ☾	♏ 4 44	16 56		☉ riseth 54 min. past 3 a clock.
30	f	☍ ♆ ☾	18 0	17 53		

July hath XXXI. daies.

Full Moon 8. day 22 min. past noon.
Last quarter 16. day 56 min. past 9. morn.
New Moon 23. day 36. min. past 1. morn.
First quarter 29. day 53. min. past 11. night.

1	G	Bq	♄	♂	♍	0	48	♎	18	50
2	a					13	22		19	47
3	b	△	♆	♉		25	41		20	44
4	c	Term end			♐	7	50		21	41
5	d	△	♆	☾		19	48		22	39
6	e	Td	♆	☿	♍	1	41		23	36
7	f	☾	apog.			13	33		24	33
8	G	☾	♋			25	20		25	30
9	a				♒	7	12		26	27
10	b	Bq	♂	☿		19	6		27	25
11	c	☌	☉	♂	♓	1	7		28	22
12	d					13	15		29	19
13	e	✶	♂	☾		25	35	♏	0	16
14	f				♈	8	11		1	14
15	G	△	♆	☿		20	59		2	11
16	a				♉	4	11		3	8
17	b					17	42		4	5
18	c	Bq	♂	☿	♊	1	37		5	3
19	d					16	3		6	0
20	e				♋	0	46		6	57
21	f					15	45		7	55
22	G	SS	☉	♄	♌	0	46		8	52
23	a					15	59		9	49
24	b	♂	♄	☾	♍	0	51		10	47
25	c	James				15	28		11	44
26	d					29	46		12	42
27	e	Martha			♎	13	32		13	40
28	f	☍	♆	☾		26	56		14	37
29	G	⚹	♄	☾	♍	9	52		15	34
30	a					2	22		16	32
31	b	□	☿	☾	♐	4	43		17	30

The first day the ☾ is with the head of Centaurus at 30 min. past 4. in afternoon.

A good season to buy cattle, or to journey, or a voyage to sea, and for divers actions, except matrimony.

9 day ☉ riseth at 6 m. past 4.

About the 11 day you may expect of thunder and lightnings with blustring windes stirs up diseases and infirmities.

17 day high water at *London* Bridge 12 min. past 10 a clock, and at *Gravesend* 42 min. past 8, and at *New-Castle* 27 min. past 12, and at *Dover* 42 min. past 5.

24 Remission of heat.

25 day ☾ with the star cal'd the Cusp of the first and North △ of *Coma Berenices*.

28 min. past 6 a clock.

28 Moderate temper of weather, but that the oblique ascension of the ☉ and the greater dog star cal'd *Sirius* is equall, which makes mens bodies very faint.

30 day ☉ riseth 37 min. past 4 a clock

Signifieth winde.

Auguſt hath XXXI. daies.

Full Moon 7. day 48. min. paſt 3. morn.
Laſt quarter 14. day at 6. a clock after noon.
New Moon 21. day at noon.
Firſt quarter 28. day at 3, after noon.

1	c				♐	16 41	♑	18.27
2	d	△	☿	☾		28 36		19 25
3	e				♍	10 22		20 22
4	f	□	♃	☾		22 10		21 20
5	g	☌	♋		♒	4 1		22 18
6	a					15 57		23 15
7	b	✶	♄	☾		28 0		24 13
8	c	☍	♄	☾	♓	10 13		25 11
9	d					22 37		26 9
10	e	Laurent			♈	5 13		27 7
11	f	♂	♎	☉		18 7		28 4
12	g	△	♄	☾	♉	1 3		29 2
13	a	△	♂	☾		14 14		29 59
14	b	Euſebius				27 45	♌	0 58
15	c	□	♄	☾	♊	11 32		1 56
16	d	✶	☿	☾		25 37		2 54
17	e	☌	perig.		♋	1 1		3 52
18	f	♂	☉	☿		24 38		4 50
19	g	✶	☿	☾	♌	9 25		5 48
20	a	♂	☿	☾		24 16		6 46
21	b	□	♂	☿	♍	9 3		7 44
22	c	△	♂	☾		23 38		8 43
23	d				♎	7 55		9 41
24	e	Bartholin.				21 49		10 39
25	f	✶	♄	☾	♏	5 22		11 37
26	g	☌	☉	♄		18 17		12 36
27	a	☍	♃	☿	♐	0 53		13 34
28	b	Auguſtus				13 8		14 32
29	c	△	♃	☽		25 8		31 31
30	d	△	♄	☾	♑	6 58		16 29
31	e	Paulinus				18 58		17 27

Freſh gales of winde.
4 day high water at *London* Bridge 21 min. paſt 1 a clock, and at *Graveſend* 54 min. paſt 11.

8 day a great expallation of the aire.
The 12 day the ☾ is with the bright ſtarre in the chair of *Caſſiopea* at 11 a clock before noon. 15 day, ſhe will be with the ſtar cal'd the bright foot of *Orion regel* at 3 a clock.

17 day ☉ riſe at 8 min paſt 5.
Thunder, being a turbulent aire, very untemperate to take medicines.
21 day do make a great *Aperio portarum.*
☉ 23 day at 20 min. paſt

5. 24, 25 26, 27, 28. and ſo to the moneths end a tranquill and pleaſant ſea ſon, with no leſſe grateſull then delightful ſe: enity.

September hath XXX. daies.

Full Moon 5. day 42. min. paſt 6. after noon.
Laſt quarter 13. day 4. min. paſt 1. in morn.
New Moon 19. day half an hour paſt 7. at night.
Firſt quarter 27 day 42. min. paſt 9. at morn.

1	f		♒	0	31	♍	18.26	The ☌ will be with the ſtar cal'd the firſt ſtar of wing Marchab the 5 day half an hour before noon.
2	g	Bq ♂ ♄		12	20		19 24	
3	a	⚹ ♃ ☽		24	23		20 23	
4	b	☿ elō.max	♓	6	35		21 21	
5	c	Bq ☉ ♃		19	4		22 20	
6	d	Magnus	♈	1	45		23 19	
7	e	regin.		14	42		24 18	
8	f	♂ ♃ ☾		27	53		25 16	
9	g	♀ elōg max	♉	11	11		26 15	9 day ☉ riſeth at 52 min. paſt 5.
10	a	□ ♃ ♂		24	42		27 13	10 day thunder and lightning with heat.
11	b	⚹ ♄ ♀	♊	7	51		28 12	
12	c	♂ ♄ ☿		22	11		29 11	A fit ſeaſon for ſaylors to ſet out to the ſea.
13	d	△ ♀ ☾	♋	6	2	♎	0 10	
14	e	☾ perig.		20	10		1 9	
15	f	☾ ☊	♌	4	26		2 8	15 day ☾ with the ſtar cald *Hidra*, the head of the water ſerpent at 4 a clock after noon.
16	g	△ ♃ ☽		18	47		3 6	
17	a	♂ ♄ ☾	♍	3	14		4 6	
18	b	♂ ♀ ☾		17	38		5 5	
19	c	Vc ♃ ☿	♎	1	57		6 4	
20	d	☊ ♃ ☾		16	3		7 3	20 day moderate weather.
21	e	☿ atthew		29	50		8 2	21 day ☉ riſeth at Bluſtring winde.
22	f	△ ♂ ☿	♏	13	15		9 1	
23	g	⚹ ♂ ☾		26	2		10 1	23 day high water at *London* Bridge 12 min. paſt 6 a clock, *Graveſend* at 42 min.
24	a	Vc ♃ ♀	♐	8	53		11 1	
25	b	△ ♃ ☾		21	11		12 0	paſt 4. and at *Amſterdam* at the ſame time as at *London*, and ſo *Tinmouth* and *Hartlepool*.
26	c	△ ☿ ☾	♑	3	11		12 59	
27	d	☌ ♄ ♀		15	1		13 59	
28	e	☾ apog.		26	43		14 58	
29	f	△ ☉ ☾	♒	8	29		15 58	☩ichael Archangel.
30	g	♂ ☉ ☿		20	20		16 57	Very frequent windes.

October hath XXXI. daies.

Full Moon 5. day 40. min. past 8. morn.
Last quarter 12. day 6. min. past 8. morn.
New Moon 19. day 50. min. past 7. morn.
First quarter 27. day half an hour past 6 morn.

1	a	Bq	♃	♀	♓	2	24	♎ 17	57	A cloudy and dark air.
2	b	☍	♄	☾		14	44	18	56	
3	c					27	21	19	56	5 day make a great *Apertio portarum.*
4	d	Td	♂	☉				20	56	
5	e	☍	♃	☿	♈	10	21	21	56	
6	f					23	39	22	55	7 ☉ ariseth at 48 minutes past 6.
7	G				♉	20	59	23	55	8 day wholsome windes.
8	a	☍	☉	♃	♊	4	56	24	55	The 11 day the Moon is with the star cal'd the great Beares left eye, at 2 a clock after noon.
9	b					18	58	25	55	
10	c	Gedeon			♋	2	59	26	55	
11	d	☾ perig.				17	2	27	55	13 day shee is with the star cal'd *Indrace dextra* at 3 a clock in the afternoon.
12	e				♌	1	0	28	55	
13	f					15	2	29	54	
14	G	SS	♀	☿		29	8	♏ 0	54	16 day ☉ riseth 16 min. after 7.
15	a	♂	♄	☾	♍	15	4	1	54	
16	b					27	2	2	55	17 day a great *apertio portarum* 18 Ot Luke
17	c	☍	♃	☾	♎	10	54	3	55	
18	d	Lucas				24	37	4	55	19 day is unseasonable for Navigators.
19	e	✱	♄	☾	♏	8	5	5	55	21 day cloudy.
20	f	✱	♄	☿		21	20	6	55	22 day high water at *London Bridge* at 24 min. past 5, and *Gravesend* at 54 past 3 a clock, and *Rochester* at 9 min. past 3, *Antwerp* at 24 min. past 8 a clock.
21	G	♂	♀	☾	♐	4	13	7	55	
22	a					16	33	8	56	
23	b	☾ apog.				29	0	9	56	
24	c	Term ben			♑	11	2	10	56	
25	d	Crispin				22	51	11	57	Some windes.
26	e				♒	4	38	12	57	
27	f	SS	☉	♀		16	27	13	58	
28	G	✱	♃	♂		28	14	14	58	28 Simon and Jude.
29	a	Q	♄	☿	♓	10	19	15	59	29 day good to take Physick but contrary for many other actions.
30	b					22	42	16	59	
31	c	△	☿	☾	♈	5	22	18	0	☉ rise 3 min. past 7.

November hath XXX. daies.

Full Moon 3. day 24. min. past 9. at night.
Last quarter 10. day 56. min. past 3. after noon.
New Moon 17. day at 11 a clock before noon.
First quarter 26. day half an hour past in morning.

1	D	All Sain.	♈	18	25	♎	19	0	
2	E	✶ ☉ ♄	♉	1	56		20	1	2 day cold raim.
3	F	☌ ♂ ☿			15	54	21	2	3 day cloudy.
4	G	☌ ♀ ☾	♊	0	2		22	2	3,4,5,6. Let not bloud in the arme.
5	a	Pow. p.o			14	25	23	3	7 day moderate temper of weather with fresh gales.
6	b				28	53	24	4	
7	c	□ ♆ ☾	♋	13	21		25	4	10 day favourable time to sow, and to deliver in prisoners.
8	d				27	45	26	5	
9	e	Theodorus	♌	11	57		27	6	12 very cold.
10	f	☍ ♂ ☾			26	0	28	7	13 day ☾ is with the starre cal'd the Ravens Bill at 28 min. past noon.
11	G	△ ♆ ☿	♍	9	52		29	8	
12	a	□ ♄ ☿			23	48	♐	0	9
13	b	✶ ☿ ☾	♎	7	12		1	10	
14	c	☍ ♆ ☾			20	37	2	11	
15	d	☿ el. max	♏	3	55		3	11	15 ☉ riseth at 55 m. past 7.
16	e	□ ♂ ☉			16	59	4	12	16 day with 17 and 18 high windes, imports an unseasonable time for health.
17	f	□ ♂ ☾			29	52	5	13	
18	G	☌ ☉ ☿	♐	12	30		6	14	
19	a	□ ♂ ☿			24	55	7	15	
20	b	✶ ♂ ☾	♑	7	4		8	16	
21	c	☾ ☌			19	1	9	17	
22	d	☾ apogeo	♒	0	51		10	18	High water at *London* Bridge at 12 min past 6, *Gravesend* at 42 min. past 6.
23	e	Clement			12	37	11	19	
24	f	✶ ☿ ☾			24	23	12	20	24 Good for to begin a journey, to build for matrimony.
25	G	Katherine	♓	6	14		13	22	
26	a	☌ ♂ ☿			18	20	14	23	
27	b	△ ☿ ☾	♈	0	38		15	14	29 day ☾ is with the first star of *Aries* at 8 before noon.
28	c	Term end			13	19	16	25	
29	d	△ ☿ ☾			26	24	17	26	
30	e	Andr. ♃	♉	9	58		18	28	30 ☉ riseth 9 min. past 8 a clock.

December hath XXXI. daies.

Full Moon 3. day 24. min. paſt 9. morn.
Laſt quarter 10 day 40. min. paſt 1. morn.
New Moon 17. day 6. min. paſt 5. night.
Firſt quarter 25. day at 10. a clock at night.

1	f	△ ☉ ♆	♉ 23 56	♐ 19 29	I day cold mitigated.
2	g	✶ ♆ ☾	♊ 8 19	20 30	temperate weather.
3	a	Caſſian	22 59	21 31	3 day cold windes.
4	b		♋ 7 51	22 32	
5	c	△ ♆ ♀	22 24	23 34	4 day ☾ is with the ſtarre
6	d	☾ perigr.	♌ 7 30	24 35	called the greater Dog *Sirius* according to longitude
7	e	□ ♀ ☾	22 9	25 36	as the moſt of the fore-
8	f	♂ ♂ ☾	♍ 6 38	26 37	mentioned ſtars be: but the
9	g	✶ ♀ ☾	20 29	27 39	diſtance between them in
10	a	☍ ♆ ♂	♎ 4 6	28 40	latitude is 41 degrees and 30 min.
11	b	Damaſcus	17 39	29 41	Shorteſt day.
12	c		♏ 0 48	♑ 0 42	12 day avoid taking of
13	d	Td ☉ ♆	13 45	1 44	Phyſick.
14	e	Nicaſius	26 28	2 45	About the 14 day you may
15	f	♂ ♀ ☾	♐ 8 58	3 46	expect ſome turbulent wea-
16	g	□ ♄ ☾	21 19	4 48	ther.
17	a		♑ 3 28	5 49	17 day ☉ riſeth 12 min. after 8.
18	b	☐ ♆ ☾	15 29	6 50	18, 19, 20, 21. Froſty.
19	c	☾ apogeo	27 24	7 52	
20	d	✶ ♆ ☾	♒ 9 13	8 53	High water at *London* Bridge
21	e	Ebo. Ap.	21 1	9 54	the 20 day 24 min. paſt 5.
22	f	Td ☉ ♄	♓ 2 51	10 56	and *Graveſend* 54 min. paſt
23	g	☍ ♄ ☾	14 45	11 57	3 a clock, the ſame day at
24	a	△ ♀ ☾	26 49	12 58	Dover 54 min. paſt 12 a clock.
25	b	Chriſtm. d.	♈ 9 8	13 59	Feaſt them that cannot
26	c	Steven M.	21 45	15 1	feaſt you, help the poor and needy.
27	d	John Eva.	♉ 4 47	16 2	27 Cold windes.
28	e	Innocents	18 11	17 3	Snow like, *Aſtra ſunt Lampades in æthere ſuſpenſa ut indeſinenter circumcirca rotata, lumine ſuo tenebras illuminent, curſu autem temporis vices dimetiantur.*
29	f	✶ ♂ ☾	♊ 2 4	18 4	
30	g	David	16 24	19 6	
31	f	Silveſter	1 6	20 7	

JACKSON. 1655.

The Prognostication with divers Astronomicall questions resolved, and sundrie propositions performed.

Giving Astronomicall reasons that the earth imployeth in the middle place of the world, and is the center of the Whole.

Shewing how to find the rising of any of the planets for any time past or to come.

Also shewing what is the cause of the thwartnesse or obliquity of the Zodiaque.

Ecce Magi ab oriente advenerunt Hierosolymam, dicentes, ubi est ille rex Iudæorum qui natus est, vidimus enim stellam ejus in oriente, & venimus ut adoremus eum.

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BIBLIOTECA BODLEIANA

The Moneth, Day, Houre, and Minute of the Suns Ingresse, or the Suns entrance into the foure Cardinall signes this present yeare 1655.

THe Cardinall Signes are *Aries*, *Cancer*, *Libra*, and *Capricorne*, being as it were the hinges on which the yeare hangeth. The first quarter, the Spring, enters with the signe of *Aries*, to whose first minut the Sun commeth this year on the 10 day of *March* 43 minutes past one a Clock in the afternoon.

The next quarter is Summer, the Cardinall signe is *Cancer*; the beginning of Summer is the 11 day of *June*, 46 minutes past foure in the afternoone.

Autumne, or Harvest beginneth *Libra*, the 13 day of *September*, 44 past 7 a clock in the morning.

Winter taketh his beginning or first point of *Capricorn*, *December* the 11 day, 15 minutes past 7 a Clock in the afternoone.

Of the Eclipses happening this yeare. 1655.

THis yeare there will be but two Eclipses, both of the Sun, but one visible to our Horizon, and the true time of the visible conjunction

junction will happen *Ianuary* 27. day 18. min. past one a clock afternoone as viz.

The beginning of the Eclips.	0. 49.
The visible conjunction	1. 18.
The greateſt obſcuration	1. 26.
The end of the Eclips	2. 03.

A figure or Scheme of the Suns Ingreſs, or the firſt point of the Suns entring into *Aries*, ſhewing the poſition of the heavens at the ſame time.

It is the opinion of most of the best Astronomers in these our dayes, for to say when the Sun is in *Aries*, the Earth is in *Libra*, and that the Sun is the Center of the world, but my opinion is contrary: some reasons I shall give, as, viz.

That the Earth imployeth the middle place of the World, and is the center of the whole.

By the true knowledge of the wise do attribute the middle seat of the world to the earth, and appoint it the center of the whole, by which the risings and settings of the Stars, the Equinoctiall, the times of encreasing and decreasing of the daies, and shadowes, and Eclipses are declared.

First, that the earth round about is equally distant from heaven, according to the definition of the center, therefore the earth is the center of the world.

That the Starres have alwaies one bigness or magnitude in what region soever any shall behold them; therefore are they in a equall distance from the earth, and the earth employeth in the middle of the world.

The roundness of the Terrestriall or earthly Globe hath a proportion to the roundnesse of Heaven; that is, the certain and proportionall parts in the earthly Globe, do answer pro-

proportionall parts of heaven, therefore is the earth the center, or employeth the middle place of the world.

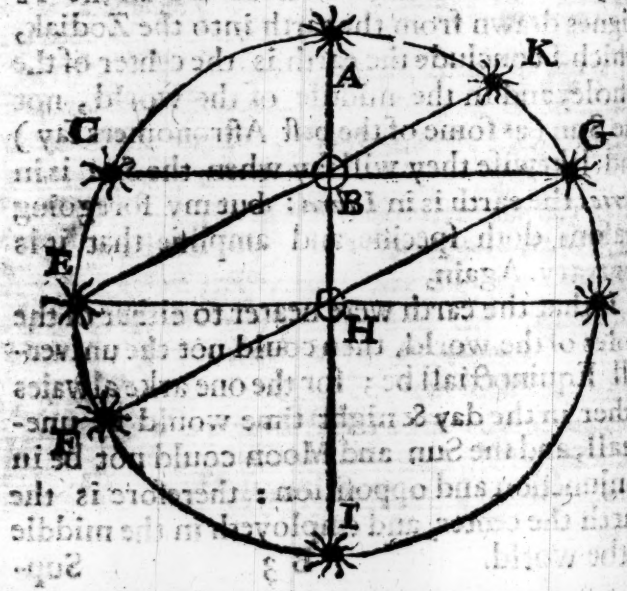
In that 60 miles do answer to a degree in the greater parallel, and that in every hour do 15 degrees arise in the Equinoctiall, which could not be if the earth were not in the middle of the world, for the unequall arkes should otherwaies appear in the equall times, and the equall parts of the Meridian should be the unequall spaces on the earth; experience dayly witnesseth unto the contrary. And hereof it ensueth, that the earth standeth and employeth in the middle place of the world.

Alwaies there are 6 Signes above the horizon, and 6 beneath, therefore are all the 12 Signes drawn from the earth into the Zodiak, which I conclude the earth is the center of the whole, and in the middle of the world, not the Sun (as some of the best Astronomers say) and likewise they will say when the *Sun* is in *Aries* the earth is in *Libra*: but my foregoing reasons doth specifie and amplifie that it is contrary. Again,

If that the earth were nearer to either of the Poles of the world, then could not the universall Equinoctiall be; for the one arke alwaies either in the day & night time would be unequall, and the Sun and Moon could not be in conjunction and opposition: therefore is the Earth the center, and employeth in the middle of the world.

Suppose in the following circle, that the earth standeth without the center h. in the point b. being to the Meridian as is the point A. neerest: Now when the *Sun*, *Moon*, or either of the Starres shal passe that point a. then shall it be neerest to the earth, and in the opposite point in l. the Starre will be from the earth much further then in any other place, which reason is quite contrary.

Againe, c. b. k. being the equator in the point b. divides the earth in two unequall parts. If f. h. g. be the Equator, it will divide the earth in two equall parts. Therefore the earth standeth in the middle of the world, and not the *Sun*.



Shewing how to find the rising of the Planets or fixed Stars for any time past or to come.

SUppose for 3 years to come *Anno* 1658. *July* 31. day, it being the absolute time that the greater dog *Sirius* riseth that day first, considering in what year, month, and day the thing desired, I imagine it will arise about halfe an houre past 4. a clock in the morning; for which time I compute these propositions as followeth.

Of the Sun.	°	′	*Of the stars.*	d.	′
The place of the ☉	17.	26 in ♌	place of the ✳	9.	24 in ♋
The declinatiō of ☉	15.	40 north	latitude of the ✳	39.	30. sou
The right ascens. of the ☉	139.	53	declination of ✳	16.	14. sout.
The Ascensionall diff. ☉	20.	40	right ascens. ✳	97.	32.
The oblique ascens. ☉	119.	31	ascensionall diff. ✳	21.	30.
The rising of the ☉	4.	37. 20.	oblique ascens. ✳	119.	

The whole circle	360.	00.
The oblique ascens. of the Sirus	119.	2.
The summe	479.	02
The oblique ascens. of sup	119.	13
The residue	359.	49
The which converted into time	23.	59. 16
The sun rising to be added	4.	37 20.
	28.	36. 36.
	24.	00. 00.
The true time that the dog star Sirus ariseth in the morning	4.	36. 36

To which I conclude, that in the yeare 1658. the last day of that month being Saturday, the Sun will rise 37. min. 20. sec. after 4. a clock.

And

And the greater Dog-ſtar *Sirius* will riſe 36. 36.min.36.ſec. after 4. So that the intervall of time between the riſing of the Sun, and the greater Dog is not a minute of time but 44. ſeconds; ſo much doth that ſtar ariſe before the Sun: to which I ſay the Dog-daies are in full force, ſtrength and power.

Here followeth ſome reaſons why there ſhould bee Dog dayes in one time of the yeare, and wherefore they are ſo called.

AS concerning the Dog-daies, I think it very convenient to treat ſomewhat concerning this ſubject, in regard ſo many object againſt it, for I have heard ſome ſay theſe are the Dog-daies, not knowing what ſhould be the reaſon that they are ſo called, & ſome have anſwered (which have thought them ſelves more wiſe, though more ignorant) and ſaid, if theſe be the Dog-daies, which are the bitches daies, nay ſome profeſſed Aſtronomers could not give a reall reaſon. So I think it expedient to explain the Dog-daies, as alſo one particular ſtar, which of the Arabians is called *Alhabor*, which properly is called the greater Dog: and this underſtand, that the ſame Star is brighteſt which ſtandeth in the mouth or tongue of the Dog, being of the firſt magnitude: this Starre is called the Dog, in the name of the whole image, which Starre being placed on the Solſtitiall Colure, unto which Starre

when the Sun commeth, the heat then is doubled, and mens bodies are attended with faintnesse, with great alterations of their bodies; also this Starre is called *Sirius*, through the brightnesse of his fiery shining: the Latines call it *Canicular*, or Dog-starre, of which the *Canicular* or Dog-daies were so called. In that time the *Sun* runneth in that part, it is dangerous through the qualities of the Season then being, that dispossesseth the time of health, and very apt to any disease or sickenesse; I would advise every one to be wise unto that which is good, and simple concerning evill, and depend upon the great Jehovah, and observe his good instruments; I could wish many to be wise, and learn the time in which the greater Dog *Sirius* ariseth, which is no apt time of administring medicine. *Hippocrates*, being of the same opinion, affirmeth, that in the Dog-daies, and a little before them, no purgation may safely be admitted. The beginning of the dog-day's varieth, according to the diversity of Regions, Climates, and Latitudes: This understand, that the *Sun* is joyned with the starre *Sirius*, when they both arise together in the same Horizon, the said starre cannot be seen to arise for the refractions and bright beams of the Sun; but after the Suns daily motion and moving from it, the Starre *Sirius* beginneth to arise and be seen in the morning before the Sun; to a man of knowledge this is

not

not ſtrange; this time at the horizontall meeting and joyning of them in the morning, or continuance of the dog-daies is determined to be 40 dayes; but the malice of that ſeaſon is many times mitigated and overcome, and changed with more violence, through the poſiture of the influence of the ſtrong beams and ſtrange alterations of the Planets, happening in the foreſaid time; for *Saturn*, *Jupiter*, *Venus*, and the *Moon* are great mitigators in that diſeaſed time: but *Mars* and *Mercury* more violent. This dog-ſtarre *Sirius*, is of the nature and qualitie of *Jupiter* and *Mars*, but moſt of *Mars*, but the reſt of his 18 Starres belonging to his conſtellation, are applyed to *Venus*.

Shewing what is the cauſe of the thwartneſſe, or obliquity of the Zodiaque.

THere are three cauſes why the Zodiack is is oblique, the one is, that the nether Sphears upon the other Extree Poles, may be carried contrary to the motion of the firſt mover. The other is, that there may be diverſities of times, and varieties of qualities and temperances, that the Sun may alſo wander and ſwarve about divers parts of the earth, running in the oblique circle: whereof *Ariſtotle* writeth, that it is neceſſary that the proper motion in the Zodiaque, be unlike to the motion of the firſt mover or *Primum mobile*, that

that it may thereby cause the variety of crescent or growing things, for if there were only one motion, there should no variety of growing creatures be caused.

A like reason to the other that of the same, one part of it doth draw nigh to the top or Zenith over our heads, and the other that is removed and distant from us, doth cause most commonly the diversity in effects, unto the life of things. As for example, when the Sun is in the Northerly halfe of this circle, and neerest the Zenith, and highest over our heads, to wit in the first point of the Tropique of Cancer, (as he is this year the 11 day of *June* 46 minuts past 4 in the afternoon) then doth the Sun cause a strong & mighty heat on all things of the earth, as by tryall we finde and see in the Summer: if therefore the Zodiack were not thwart or oblique, but should equally approach or draw nigh, according to all the parts of it, then should the Sun be alwaies alike near us; and then in a short time of summer he would cause such a heat, that his heat undoubtedly should be so mighty, that nothing would grow or be encreased, and those things already grown up and dried, would be consumed and burnt up: Therefore the Zodiak is thwartly placed, the *Sun* moving into the other halfe Circle, his heat is slacked and weakened, in which he being carried, departeth from our Zenith, and cold then taketh

place

place as may appear in the Winter; and if the Sun ſhould run alwaies in the loweſt, and neareſt our Nadir, to witt, into the Tropick of *Capricorn*, the ſouth part of the Zodiack, then through the extremity of the cold, ſhould all things be deſtroyed in the North part: and as neither heat nor cold is continuall, but ſucceſſively, as thoſe which be ingendred and cauſed by heat, and conſumed by cold, ſo that the Sun procureth by coming nigh and going from us in the Zodiack, in that it is needfull and neceſſary for the Zodiack to be oblique or thwart.

Alſo the diverſitie of the Planets in the Zodiack, there is a Latitude attributed to the Zodiack, by which it differeth from the other Circles, in that they are deſcribed with one ſimple Circle, that it may by the larger ſpace contain the wandring of the Planets, on either ſide of the Ecliptique line, leſt they ſhould exceed the bounds of the Ecliptique; yet the Sun keepeth one manner of way and journey continually in middle of the Zodiack, and never declines from it, neither to the right or left ſide, but keeping ſtill his proper way, both in the riſing or ſetting in either quarter, and the like in the Winter and ſummer ſeaſon. The declinations of the Sun do ſhew and appear to be equall on either ſide of the Equator; ſo theſe do amplifie, that the Sun in his annuall motion deſcribeth and

keepeth

keepeth under that line called Ecliptique; but the other Planets do neither keep continually the Suns way, nor are drawn in a right path like him, but digressing on either side of the Suns way, do wander the Zodiack by a crooked or bending course, as one while moved into the south, and another while into the north, from thence returning into the Suns way, as the like knowledge may be had and discerned by the eye.

The beginning of the Longitude of the Zodiack (although in the compasse of the Circle neither the beginning nor end can be assigned) which bendeth, or is drawn perfectly round into it selfe, and both closeth and containeth in it selfe; yet the practitioners have assigned by the principall, and most antient Doctrine of the Godly Fathers, to be in the Equinoctiall spring, which is by the Suns comming to the Equinoctiall point; or more exactly by the change of the Moon that followeth the next Equinoctiall Spring, is not then to be doubted the year then begun; so that they began to reckon the Zodiack from that point, where the motions and workings of the Sun the Author and shewer of the yearly space ensueth, which after the day and night being alike, the day increaseth, and hee ascending to usward, doth after abate the the cold on earth, and both slacketh and melteth the frosts and ice, and the hidden vertues

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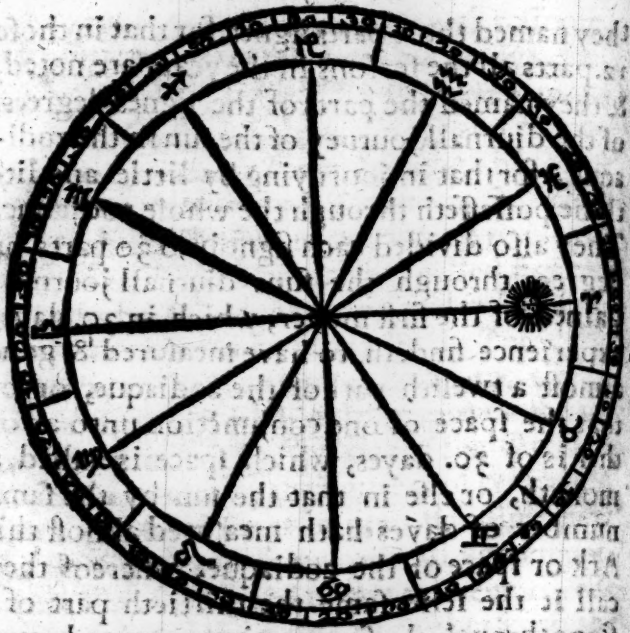
again of the earth he then beginneth to looſe, open, cheriſh, and ſtirre up by his lively heate, both looſeth & ſheddeth forth the dew-moyſture incloſed; and draweth up and procureth young plants to ſpring, through his comfortable warmth daily falling upon the earth.

The whole Zodiaque according to length in 12. equall parts (which are called ſignes) through the Moone as guide and ruler of the ſame, which paſſing yearely by the Zodiaque 13 times, to the ſuns ſlower going 12. times, and conjoyned with him in 12 places of heaven. Thoſe ſignes the Antients of the Greekes call *Zodia*, either by the figurers of creatures, which the fixed ſtarrs in their ſtanding ſhew and expreſſe, or by ſome naturall agreement, the antients ſo aſſigned names to them, or elſe they appointed the names of the beaſts to the ſignes, through the congruent nature betwixt ſtarrs & beaſts, alſo through the effects which the ſun hath in thoſe places. Beſides the antient Aſtronomers deſcribed the other ſtarres without the zodiaque by Images that place into Images, they might be the cõmodiouſer, and expreſſed in heaven to the better underſtanding of young ſtudents to theſe famous Arts, Aſtronomie and Aſtrologie, and that their riſing & ſetting might be the more readily demonſtrated. *Ptolomie* called thoſe *Dodehatemoria*, that is the 12. parts, the Latines called them ſignes and conſtellations. Alſo they

they named those parts signes, for that in those 12. parts all the seasons in the yeare are noted, & they named the parts of the signes degrees, of the diurnall journey of the sun in the zodiaque, for that in journying by little and little he possesseth through the whole zodiaque. They also divided each signe into 30 parts or degrees, through the sunne diurnall journeys gained, of the first mover, which in 30. dayes experience findeth to have measured & gone almost a twelfth part of the zodiaque, or for that the space of one conjunction unto another is of 30. dayes, which space is called a moneth, or else in that the sun by the same number of dayes hath measured almost this Ark or space of the zodiaque, whereof they call it the selfe same: the thirtieth part of a signe through the suns motion every 24. hours, which the Latines call Degrees, & the Greekes *Meræ*, that the ancients call Parts, but the ten parts or degrees of every signe the Greekes call *Decani*, and the Latines call faces, of which each sign doth containe three.

The Sunne also journieth in these signes, as from the West into the East, by a contrary order to the first mover: as this following circle doth plainly demonstrate, the sun beginning at ♈ Aries, and from Aries by Taurus ♉, and so through the whole zodiaque.

To



TO this if one should demand, why there are one, y 12. signes and no more, *Albumaser* doth answer: affirming that the first observer of the starres, noted 48 Images in the eight heaven, placed and decked with the starrs, that represents sundry formes, and called by them for the forme, standing, or nature of the starres, of which they appointed 12. for the suns way, as also, the Ram, the Bull, the Twinnes, the Crab, the Lyon, the Virgin, Ballance, the Scorpion, the Shooter, the Goat, the Water-powrer, the Fishes. So many are for the signes of the Zodiaque; but here may be demanded where the circumference of the Zodiaque is, to which I answer, that all the circumferences of the Circles imagined, are in that hollow of the first heaven, and likewise the signes are conceived there to be; and where the signes of the Images of the eight sphear are movable, and the starres in them separated

parated after a time; yet the number and names both of signes and images remaine, so that it is not materiall if that the starrie Aries separate from the firm Aries of the Zodiaque, and the other signes the like from one another by most slow course are carried and separated.

The signes are divided after two conditions, as in their standing and qualities; in the standing they are distinguished into principall, fixed, and common signes, the signes fixed are ♉ ♌ ♏ ♒ signes, common are ♊ ♍ ♐ ♓ signes moveable are ♈ ♋ ♎ ♑.

And for the qualities of the signes, they are assigned into four trients or triplicities; the first trient or triplicitie containeth Aries, Leo, and Sagitarius, which are by the space of foure signes inclusive distant 120. degrees: they are hot and dry, fierie, choleriek and masculine.

The second triplicitie comprehends Taurus, Virgo, and Capricornus, which being distant by the like space, are cold, dry, earthly, melancholly, and feminine.

The third Triplicity hath Libra, Gemini, and Aquarius, they are hot and moyst signes, aereall, and masculine.

The fourth Trigon, Trient, or triplicity, doth containe Cancer, Scorpio, and Pisces, which are distant 120 degr. and are in quality cold and moyst, watery, flegmatique and feminine, all which are agreeing to the foure elements in their qualities.

The Annuall motions of the planets.

	Longitude.	Aphelion.	node ascending.
	s d ′ ″	s d ′ ″	s d ′ ″
Saturne is	00. 12. 13. 34.	00. 00. 00. 20	00. 00. 00. 36
Iupiter is	1. 00. 20. 32.	00. 00. 01. 00	00. 00. 00. 13
Mars is	6. 11. 17. 8	00. 00. 01. 13	00. 00. 00. 47
Sun is	11. 29. 45. 40	00. 00. 01. 02	fix ♑ 00. 51
Venus is	1. 14. 47. 35	00. 00. 00. 54	00. 00. 00. 36
Mercury is	1. 23. 43. 16	00. 00. 1. 44	00. 00. 01. 30
Moone is	4. 9. 23. 03	01 10. 39. 54	00. 19. 19. 43

How to caculate the places of the planets for any time past, present, or to come.

Example.

Suppose it were required in the yeare 1892. the 24. of *Aprill* at 10 min. past 6 in the morning, which time being 238 yeares to come, to find the true place of the sun and Jupiter.

	Longitude Sol	Aphelion Sol.
The middle motion of Sol	1.12.31.25	3.10.41.39.
The Aphelion of sol sub	3.01.41.39	
The Anomalie of the sun	10. 1.49.46	
The equation add	1.42.36	
The suns place	10.14.14.01	
His distance from the earth is in semidiami.	100969.	

I conclude the suns true place at that same time is in *Aquarius* 14 degr. 14. min. and 1. second

At the same time it being required the true place of Jupiter.

	Longitude.	aphel of ♃	node Asc.
The midle long. of ♃	00. 5.45.45	6.12.46.6	3.6.29.7.
The Aphelio of ♃ sub	6.12.46. 6		
The Anomali of excen.	5.22.59.39		
The Equation subst.	46.85		
The place of ♃ from ☉	00. 4.59.10		
The node ascend. in sub.	3. 6.29.07		
The argument of lati.	8.28.30.03		
The Reduct. subst.	3		
The place of ♃ from ☉ in the ecliptique	00. 4.59.07		
The place of ☉	10. 14. 14.01		
The place of ♃ sub.	00. 04.59.07		
The anomali cõmutat.	10. 09. 14.54		
The halfe of cõmutati.	05. 04. 37.27		
or	154.37.27		

The

The inclination of ♃	1.21.48
The Reduction is	3
The curtation is part	107
The distance of ♃ from ☉	497296
The curtation subst.	107
The distance of ♃ from ☉ curtated	497189
The distance of ☉ from earth	100969
The Summe	598158
The difference	396220

Then say as the sum of both distances is to the Tangent of halfe the Anomalie of commutation, so is the differenee of the distances of ♃ and ☉. to the Tangent for to finde the Longitude of ♃.

	deg.	min.	sec.		
598158 ——	154.	37.	2.	——	396220.
com	64.	37	2		
10323183					
597914					
10921697					
776047		deg.	min.	sec.	
		64.	37.	2.	
10145650.		54.	26.	0	
	Sum—	119.	03.	2	the Elongatio of ♃.
	diffe	10.	11.	1.	the parrellex of the orbe

The place of ♃ from ☉ in the eccliptique	00. 4. 59. 7.	ad
The parrellex of the orbe ad	10. 11. 2.	
The true place of ♃ from the earth	00. 15. 10. 9.	Being superior must ad, if inferior subst.

is 15. deg. 10. min. 9. seconds in *Aries*, in that foresaid yeare, moneth, day, ho, & min.

How

How to calculate the Latitude of any of the planets as in Example.

The Elongation of ♃ is	0s.	19 d.	3'. 2".
The Angle of commutation	5.	4.	37. 2.
The inclination of his Orb South		1.	21. 40.

As signe of the Elongation is to the contangent of inclination, so is the signe of commutation to the contangent of the Latitude.

d. ' "	d ' "	d. ' "
119. 3. 2.	1. 21. 48	309. 14. 4.
comp. 60. 56. 58.		50. 45. 56. comp.

9941609.
11622378.

21563987
9911982

d. ' "
11652005. 1. 16. 15. south Lat.

So I conclude in the yeare 1892 the 24. of *Aprill* at 10 min. past 6. in the morning, the suns place will be 14 d. 14 min. 1" in ♒.

Jupiters place will be 15. 10. 9. in ♈. and his latitude is 1. 16. 15. South.

Shewing how to know how many myles Iupiter will be from the earth at the foresaid time, being 238. yeares to come.

Example.

It is required to know how many Miles Iupiter will be from the earth at the foresaid time being 238. to come.

Example.

In the foregoing worke I have found that Iupiter will have 5981558 Semidiami from the earth.

As 137. ——— miles 3642 ——— 598158.
2.

1196316.

These three numbers being worked by the rule of three will give 318027 94 miles that Iupiter is distant from the earth.

The

The Kingdomes and Countries as the twelve signes have dominion over.

♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
England	Russia	Sardinia	Scotland	Galia	Achaia	Astria	norway	spaine	macedo-	Amazo-	cilicia
France	Swethland	Lumbardi	Granado	Togata	Greece	Alsatia	bavaria	arabia	nia	nia	celabria
German	Lorraign	Flanders	Holand	Alps	creero	Livonia	capadocia	altica	illira	Sarmatia	portugill
Denmark	Compania	Brabant	Zeland	Italy	croatia	Sabaudia	idumea	missnia	thracia	Tartaria	galatia
Poland	Helvetia	Hyrcania	prussia	Sicily	carinthia	Delphiat	fez	moravia	bosina	Valachia	normandi
Swevia	Rhetia	Armenia	Colchis	Apulia	arthesina	Thusia	gethulia	hungaria	albania	Muscovia	phasania
Burgundi	Franconia		carthage	Bohemia	athens	caspia	catalonia	dalmatia	bulgaria	Swethland	nasamonia
Siria	Parthia			Turkia	mesopotamia	sexes	mauritania	thirroma	muscovia	Phalia	garamantes
Palestine	Persia			Æmilia	Babylon	thebada			lituania	Mosel	pamphilia
Silicia	Ireland			Sabina	Assyria	orsem			saxonia	piemont	therigher
	Ciclades			phænicia	Gallia	troglodi-			hassia	Bavaria	
				chaldea	comata	tica			thuringia	Æthiopia	
				Orchinia	Rhene	gundgavia			india	Oxiana	
										Sogdiana	
										Media	

The Kingdomes and Countries as the Planets have dominion over, and what persons they doe signifie.

♄	♃	♂	☉	♀	☿	☾
bavaria	babilon	sarmatia	italy	arabia	græcia	holland
saxony	persia	lumbardi	silicia	austria	flanders	zeland
stiria	hungaria	batavia	bohemia	campana	ægypt	denmark
romandiola	spaine	farraria	phenicia	vienna	paris	norimberge
ravenna	cullen	gothland	chaldea	polonia		flanders
constantia		and the third	and the fourth	turing		
ingolstad		climate	climate	parthia		
				media		
				cipprus and		
				the 6 climate		
husbandmen	noblemen	generall	kings	singers	mathematitians	queenes
beggers	bishops	colloncll	princes	youngwomen	philosophers	ladies
jewes	iudges	captaine	dukes	musitians	serivenors	sylers
moores	councellors	enfigne	marqueſſes	mother	accountants	fishermen
ditchers	lawyers	common sould-	earles	wife	marchants	watermen
potters	divines	diers	rulers of cities	damosells	gravers	anglers
currriers	young elders	physitians		whores	clothworkers	carriers
sinckclengers		chyrurgions		cookes	watchmakers	lackeys
tinkers		cutlers		painters	dialers	coachmen
		gunmakers				pilots

The Radices of the middle motions of the Planets for *Ianuary* the first 1760. at noone, for the Meridian of *London* being 106. yeares to come.

	s	d.	′	″
Progression of the first star of Aries from the vernall equinoctiall	00.	29.	52.	00.
Meane Longitude of the Sun	9	21	24	42
Aphelion of the Sun	3	8	26	47
Meane Longitude of the Moone	1	16	50	18
Aphelion of the Moone	1	9	13	7
Node ascending of the Moone	6	28	34	55
Meane Longitude of Saturne	11	27	55	1
Aphelion of Saturne	8	29	32	47
Node ascending of Saturne	3	22	08	19
Meane Longitude of Jupiter	10	8	27	59
Aphelion of Jupiter	6	10	33	36
Node ascending of Jupiter	3	6	00	14
Meane Longitude of Mars	4	22	7	41
Aphelion of Mars	5	2	13	11
Node ascending of Mars	1	18	39	3
Meane Longitude of Venus	5	7	2	56
Aphelion of Venus	10	6	46	17
Node ascending of Venus	2	14	34	49
Meane Longitude of Mercury	4	8	10	33
Aphelion of Mercury	8	17	25	37
Node ascending of Mercury.	1	16	28	30

The

Courteous

Courteous Reader,

AT *London* in Southwarke in Winchester-yard by St. Mary-Overs Church doore, is taught by me, Arithmetick in whole numbers and fractions, &c. the principles of Geometry with practice and demonstration, and surveying of Lands, to measure any superficiall or solid content, to take the height, depth, length, or bredth of things, which being invironed with water, or whatsoever may hinder the approaching thereunto: The Doctrine of Triangles both plaine and spherical, with the use of the signes, Tangents, Secants, and Logarithmes. A description demonstration, and use of Instruments, as also quadrant, plaine-scale, sector, theodolice, plaine table, crosse-staffe, horizontall sphere, with the two globes, Terrestriall and Celestiall, teaching Navigation, with making use of sundry instruments in fitting that Art, plaine sayling, and Mercators projection, and to calculate the course and distance of any two places in the world howsoever situated, by Trigonometricall calculations. Teaching Astronomy, the working of any proposition whatsoever to calculate the true time of the conjunctions and oppositions of any planet for any time past or to come, or any proposition that is prescribed in this Almanack.

Yours till I cease to be my owne

THO. JACKSON.